BOUND
46
51.30
topsb

N/F LAURENCE & JUDITH LAVERY

150.0 (DEED)

LOT AREA:
0.51 ACRE±

TAX MAP 6
LOT 111

2
52.35
sethub

IRON
PIPE
3
58.29
fndip**

N/F JANE DOCKHAM TRUSTEE

WOODED
SEASONAL
WET
AREA

150.0 (DEED)

32
51.50
edglwn

31
50.71
flag***

29
49.15
flag***

30
50.81
flag***

48
53.12
corgar

47
53.66
corgar

GARAGE

49
55.56
corgar*

33
52.35
lawn

EXIS. DECK
EL 55.6±
TO BE
ENCLOSED

50
52.76
corpack

51
55.60
deckel

52
52.75
corpad

45
54.45
cldr10w

4
55.15,13
cldrep

28
51.19
clmp****

27
50.80
bmnlf***

34
51.62
lawn

BULK-
HEAD
EL51.37

EXISTING
4 BEDROOM
HOUSE
FIRST FL
EL 56.6±

AREA OF EXISTING SYSTEM - LOCATE AND CRUSH/FILL TANK COMPONENTS

BM#4
SET NAIL
ROOT
EL 50.80

54
55.42
orfsid
orfsid

55
51.37
conc***

53.84

53.79
corep

5
54.42
ensfnc

6
55.57
pole

35
51.26
lawn

39
56.32
bottrmhse

53.5
53.46
lawn

10' MIN FROM TANK
25' MIN FROM FIELD

PROPOSED
WATER
LINE

APPROX PL

150.0 (DEED)

EXISTING TOWN WATER

WOODLAND ROAD

APPROX

46
49.85
Bmap***

24
49.35
edglwn

36
50.19
lawn

38
51.65
10" BS@LEVEL

51.7

17
50.77
pit

42
52.93
ts

41
53.08
brn/ts

7
52.96
ep

25
49.55
flag***

23
49.46
@db24map

(50)
(53)
(52)
23.5'
29'
19.5'
38.5'
25'

RELOCATE WATER LINE

22
49.10
edglwn

APPROX LIMIT HYDRIC B

150.0 (DEED)

12
48.37
flag**

14
48.12
@fnc

13
48.26
2corfnc

BM#3
SET NAIL
10" MAPLE
EL 50.17

21
50.17
fnmnt10in**

1
50.00
sethub

BM#2
SET HUB
EL 50.00

11
48.95
flag

BM#1
WATER
SHUTOFF
EL 50.93

18
50.93
s/ww bs

8
51.46
h2ogate

17
49.97
bsedglwn

50.51
endfnc

9
51.57
ep

15
49.23
flag***

LAWN

LAWN

APPROX PL

N/F MAURA ELIZABETH WINSTON

16
48.57
ep13-wll

```
Command= 21-
Invalid Option
Command=
Command= 21-
Invalid Option
Command= 1-
Command= 210-
Point#, Start#-End# or G#= 1-100
```

Bearing	Distance	Elev	Descrip	Pnt.	Northing	Easting	Type
----------01-26-2025-----				10:13:28	----------	D:...\BMHOME12	
		50.00	sethub	1	5000.0000	5000.0000	
		52.35	sethub	2	5123.6729	4954.9867	TRA
		58.29	fndip**	3	5114.1011	5069.6704	SS
		55.13	cldrep	4	5075.1156	5074.5496	SS
		54.42	endfnc	5	5068.2026	5064.7596	SS
		53.57	pole	6	5054.2044	5063.0276	SS
		52.96	ep	7	5029.2636	5063.7987	SS
		51.46	h2ogate	8	4997.5156	5052.9818	SS
		51.57	ep	9	4986.1521	5053.6104	SS
		50.51	endfnc	10	4986.7183	5044.6672	SS
		48.95	flag**	11	4988.5659	4988.3131	SS
		48.37	flag**	12	4998.5218	4961.4483	SS
		48.26	2corfnc	13	4986.6670	4963.1903	SS
		48.12	@fnc	14	4992.7269	4942.6292	SS
		49.23	flag***	15	4981.1568	5024.6409	SS
		48.57	ep13-wll	16	4856.1269	5021.6304	SS
		49.97	bsedglwn	17	4990.7263	5036.4487	SS
		50.93	s/o bs	18	5003.6719	5042.4314	SS
		50.84	edglwn	19	4997.5378	5026.0137	SS
		49.70	edglwn	20	4993.5242	5010.1146	SS
		50.17	bmnl10m*	21	5000.3657	4984.1742	SS
		49.10	edglwn	22	5008.1660	4964.5586	SS
		49.46	@db24map	23	5019.7377	4952.2376	SS
		49.35	edglwn	24	5032.0733	4950.2055	SS
		49.55	l1flag**	25	5021.2642	4944.6330	SS
		49.85	18map***	26	5039.0351	4933.1063	SS
		50.80	bmnlroot	27	5064.3589	4957.2018	SS
		51.19	clmp****	28	5071.5149	4954.6347	SS
		49.15	flag***	29	5092.2954	4940.8737	SS
		50.81	flag***	30	5086.8500	4949.3703	SS
		50.71	flag***	31	5104.2989	4944.0885	SS
		51.50	edglwn	32	5111.6835	4954.1731	SS
		52.35	lawn	33	5091.4705	4970.0464	SS
		51.62	lawn	34	5069.4673	4975.6540	SS
		51.26	lawn	35	5046.9803	4973.8660	SS
		50.19	lawn	36	5028.8587	4967.8129	SS
		50.77	pit	37	5024.3044	4983.3333	SS
		51.65	@pit	38	5027.0857	4992.0439	SS
		55.32	bottrmhs	39	5043.0831	4987.6800	SS
		55.40	bottrmhs	40	5037.9075	5011.4189	SS

JOB #10 659Macdonald [100]

Bearing	Distance	Elev	Descrip	Pnt.	Northing	Easting	Type
----------01-26-2025-----10:13:28----------D:...\BMHOME12							
		53.06	bmnlstmp	41	5019.4173	5020.5053	SS
		52.93	ts	42	5024.7649	5014.5246	SS
		53.46	lawn	43	5041.9834	5035.6693	SS
		53.79	corep	44	5050.6761	5026.3991	SS
		54.45	cldr10w	45	5083.8041	5042.1567	SS
		51.30	topsb	46	5152.0233	4924.4202	SS
		53.66	corgar	47	5102.0113	5006.8552	SS
		53.12	corgar	48	5106.7792	4985.1133	SS
		55.56	corgar*	49	5094.8188	4982.4869	SS
		52.97	cordeck	50	5082.9735	4979.7865	SS
		55.60	deckel	51	5082.1465	4994.1344	SS
		52.75	corpad	52	5077.2352	4983.3989	SS
		51.43	@hse	53	5059.4241	4991.0333	SS
		55.32	botsid	54	5060.0112	4991.1578	SS
		51.37	conc***	55	5052.2316	4986.2688	SS

Point#, Start#-End# or G#= 4-

Printed from Internet for on 5/28/2013

US Rev stamps $1.10 Del. MacGregor

Book 1332 Page 0290

1332 290

(STATUTORY FORM OF)

WARRANTY DEED

We, Walter C. Kopanski, married and William J. Thompson, unmarried

of Portsmouth and Hampton, Rockingham County, State of New Hampshire, for consideration paid, grant to Robert S. Barber and Jean C. Barber husband and wife, as joint tenants with the right of survivorship, and not as tenants in common,

of 17 Mendum Ave. Kittery, York County, State of Maine, with WARRANTY covenants, the

(Description of land or interest being conveyed; incumbrances; exceptions, reservations, if any)

A certain parcel of land situate in North Hampton in the County of Rockingham and State of New Hampshire, on the road leading from Atlantic Avenue to Rye, called Woodland Road, bounded and described as follows:

Beginning at a drill hole in a rock in wall at corner of land of Fulton and on the Westerly side of Woodland Road, approximately 750 feet North of Atlantic Avenue, and running West along land of said Fulton N75-34' W150 ft to an iron pipe, thence turning and running North 14-26' E150 ft to an iron pipe, thence turning and running S75-34' E150 ft to an iron pipe in stone wall, thence turning and running along wall and Woodland Road S14-26' W150ft to a drill hole in a rock in wall which is point of beginning

Being a portion of the same premises granted to Walter Kopanski and William J. Thompson as tenants in common, by deed of Harry Carlson dated May 27,1953, recorded in Rockingham Record Book 1283, Page 79

I, Ruth B. Kopanski wife of Walter Kopanski husband of said Grantor, release to said Grantee all rights of dower curtesy and homestead and other interest therein.

WITNESS our hand and seal this 13th day of September, 1954.

Witness:

Jean C. Barber

(to all)

William J. Thompson

Walter C. Kopanski

Ruth B. Kopanski

THE STATE OF NEW HAMPSHIRE

Rockingham ss. Sept. 13, 1954.

Then personally appeared the above named William J. Thompson, Walter C. Kopanski and Ruth B. Kopanski

and acknowledged the foregoing instrument to be their voluntary act and deed.

Before me,

Jean C. Barber

Justice of the Peace

Notary Public

My N. P. commission expires 10/3 19 54

Received and recorded Oct. 6, 11:25 A.M., 1954

SEPTIC DESIGNS of NH, LLC

12 Folsom St., Exeter, NH 03833 Phone: (603) 714-7018

Onsite Wastewater Treatment System Inspection Report

Ordered By**:Scott Loignon**

Inspection Date: 8/31/2018 Inspection Time:**9:30 am**

Site Address **62 Woodland Rd, North Hampton NH**

Customer Name:**David Roberts**
Phone: **617-512-4576**
Email: **davidroberts4@comcast.net**

General Information: (Obtain as much as possible when inspection ordered)

1.) Age of wastewater treatment system:**UNK** years
☐Water Softener ☐Garbage Disposal ☐Whirlpool Bath ☐Cleaning Service

2.) Number of People Occupying dwelling: Currently: **UNK** Anticipated: **2**
If currently unoccupied, for how long has it been vacant?_____ Month(s)

3.) Number of Bedrooms in Dwelling: **3**

4.) Has there ever been a backup in the house? UNK

5.) List any known repairs made to the system:
UNK

6.) Has the system been recently inspected by others? No
If so did it fail? N/A

7.) Date the tank was last pumped:**UNK**
At what frequency:**UNK**

System Type:

1.) Components of Wastewater Treatment System-complete as necessary

Pretreatment Unit 1: gallons or gpd
Main tank: 500 gallons
Secondary tank: gallons
Pump Chamber/tank: gallons
Soil treatment unit:

All volumes are estimated. Consult pumping records for actual gallons.

Additional Comments ____

Evaluation Procedures: Mark the appropriate answer.

Septic Tank:

Depth of tank below grade	**2.5-3 Feet**
Locate, Access, and Open the septic tank cover.	**Yes**
If at grade is the cover "secure"?	**N/A**
Can surface water infiltrate into the tank?	**No**
Any indications of previous failure?	**No**
Inspect Lid, damage, effluent filter, and baffles?	**Yes**
Effluent Filter	**No**
If Yes is there a riser to grade?	**No**
If an effluent filter is installed a riser to finish grade is required. Per State Rule Env-Wq 1010.05 (c)(2)	
Cracks, deterioration, or damage of tank?	**No**
Contain a dosing, pump tank, ejector or grinding pump?	**No**
If Yes:	
Check the integrity of the tank (cracks, infiltration, ect).	___
Is the pump elevation off the bottom of the chamber?	___
Is the pump in working order?	___
If there is a check valve, is a purge hole present?	___
Is there a high water alarm?	___
Does the alarm work?	___
Do electrical connections appear satisfactory?	___
Did you clean the pump tank?	___

Leach Field:

Excessive moisture, odor, effluent, or improper color	**Yes**
Type of Distribution:	**Gravity**
Seepage Visible on lawn	**No**
Lush vegetation present?	**No**
Ponding water?	**Yes**
Inspect Distribution Box?	**No**
If Yes condition of D-Box	____

Condition of system: Poor

Print: Zach G. Young

Signed:_____

State of NH Evaluator #: 87
Company Licenses:
GSDIA Certified Evaluator #: 98
Designer #: 1723
Installer #: 5017

Date: 12 September 2018

NOTES: Please see Inspection Letter.

INSPECTION REPORT IS NON-TRANSFERABLE

Company Disclaimer:

Based on what we were able to observe and our experience with onsite wastewater technology, we submit this Onsite Wastewater Treatment System Inspection Report based on the present condition of the onsite wastewater treatment system. Septic Designs of NH has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time in the future. Because of the numerous factors (usage, soil characteristics, previous failures, etc.) which may effect the proper operation of a wastewater treatment system. This report shall not be construed as a warranty by our company that the system will function properly for any particular buyer. Septic Designs of NH **DISCLAIMS ANY WARRANTY** either expressed or implied, arising from the inspection of the wastewater treatment system, or this report. We are also not ascertaining the impact the system is having on the environment. The inspection that was conducted and the reports are subjective and are "opinion only"

62 Woodland Rd, North Hampton NH

Center of the tank

Pipe entering the drywell

Outlet of the tank

Drywell - liquid about 1' below inlet pipe with high staining to top of drywell.

Dos and Don'ts of a Septic System

Dos:

- Do spread laundry use over the week rather than many loads on one day.
- Do make a permanent record of where the key parts of your system are located for future maintenance; such as tank pump outs or field repairs.
- Do have your septic tank pumped out regularly (1-3 years depending on use).
- Do keep the records of pump outs and maintenance.
- Do use water-conserving devices where possible. Low flush toilets and showers heads are commonly available.
- Do have manually cleaned lint traps on your automatic washer.
    - Clean lint traps often or have them installed
- Do check any pumps, siphons, or other moving parts of your system regularly.
- Do remove or prevent trees with large root systems growing near the disposal field.
- Do maintain a healthy grass cover over the disposal field to use some of the water and to prevent erosion.
- Do keep surface water from upslope or from roof drains away from the disposal field.
- Do check your interceptor drain regularly to ensure that it is free flowing.
- Do compost your kitchen waste.

Don'ts:

- Don't overload the system with high volumes of water.
- Don't use powdered detergent
- Don't connect basement sump pumps to the on-site system.
- Don't connect backwash from water treatment devices (Water Softeners) directly to the on-site system without professional advice.
    - Highly recommend the installation of a dry-well.
- Don't install a garbage disposal without consulting a Licensed Septic Professional.
- Don't allow large amounts of fats (bacon grease – use a soup can to cool it then throw in the trash), chemicals (bleach) or solvents to enter the system
- Don't allow any plastics to enter the system.
- Do not use any septic tank additives. They are not beneficial and may damage your disposal system. Active bacteria are naturally present in sewage.
    - You can use a little bit of Baker's Yeast once a month to promote healthy bacteria growth
- Do not allow vehicles or heavy equipment to drive over or park on the disposal field. This may compact the soil and crush the piping.
- Do not plant anything over the disposal field except grass. Especially do not cover the tank or field with asphalt or concrete or other impermeable material.

Do not flush the following items into your septic system:

Coffee grounds
Seeds
Disposable diapers
Disposable Wipes
Sanitary napkins
Cigarette butts
Fats, grease and oils
Disinfectants
Photographic chemicals
Pills and unused medication
Dental floss
Kitty litter
Tampons
Condoms
Paper towels
Pesticides
Other chemical wastes
Paints
Varnishes
Waste oils
Poisons
Thinners

The Best rule of thumb is if it has not been consumed by you first it, it does not get flushed down the toilet; excluding toilet paper.

SEPTIC DESIGNS of NH, LLC

Licensed Designer, Installer, and Certified Septic Evaluator

12 September 2018

Dear David Roberts,

This letter is a supplement to the Septic Inspection Report that you have received to provide an explanation of the Septic Inspection that was conducted by one of our Certified Evaluators. Please see below for an explanation of items **at the time of** inspection:

The septic tank is a Concrete septic tank and is an estimated 500 gallon tank in satisfactory condition. Recommend that the tank be pumped ASAP, as it looks like it has not been pumped out recently. The current outlet baffle is a cast iron 90 degree baffle, and does need to be replaced. The outlet cover is in satisfactory condition and does not need to be replaced.

The leaching area is a(n) Drywell system that is in poor condition. The material above the system was slight contamination with no signs of liquid. The material below the leaching area was showing dark contamination. At the time of the inspection there was about 75% ponding of liquid in the leaching area.

Looking at the house from the street the septic tank is located back middle of the house and the leachfield is located back middle of the house.

Additional comments:

The tank is about 2.5-3 Feet deep and has very boney backfill. It should also be noted that the tank had been backed up before as there was a black ring over the top of the tank and the center cover was replaced at some point by a patio block. The tank looks like it was backing up at the time of the inspection as we could not see the outlet baffle very well as well as the top scum layer being very thick.

We were not able to locate the septic leachfield as it is estimated to be much deeper than the tank as some fill was brought in to level out the yard as it was hilly, the material that was brought in is very boney and rock and very difficult to probe through to feel anything. It would be recommended that we come back and dig up the oulet of the tank cut the pipe and camera the line to find the field and dig it up with a mini excavator.

It also should be noted this is a very old round riler tank. They stopped making the tank in the 70's. It is a possibility that the system could be in a poor or failed condition and is backing into the tank. But without bringing in a mini excavator we would not be able to properly diagnose the field.

UPDATE:

On 9/11/18 we went back with a mini excavator to expose and dug up the drywell. The pipe from the tank was Bermico pipe which is made up of compressed layers of paper and tar. The pipe was in poor condition and needed to be replaced at the time of the inspection as it was falling apart. The drywell is in poor condition with the liquid level being about 1' below the inlet pipe and showing high staining above the liquid line. The system will need a new state approved design and install.

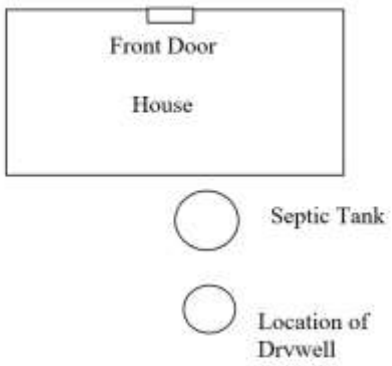
If you have any questions regarding the inspection, please call me at your earliest convenience.

Thank you,

Zach G. Young
Field Tech

Company Disclaimer:
Based on what we were able to observe and our experience with onsite wastewater technology, we submit this Onsite Wastewater Treatment System Inspection Letter based on the present condition of the onsite wastewater treatment system. Septic Designs of NH has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time in the future. Because of the numerous factors (usage, soil characteristics, previous failures, etc.) which may effect the proper operation of a wastewater treatment system. This letter shall not be construed as a warranty by our company that the system will function properly for any particular buyer. Septic Designs of NH **DISCLAIMS ANY WARRANTY** either expressed or implied, arising from the inspection of the wastewater treatment system, or this letter. We are also not ascertaining the impact the system is having on the environment. The inspection that was conducted and the letter is subjective and are "opinion only"

Sketch of System:-not to scale. For reference purposes only.



ADVANCED ONSITE SOLUTIONS LLC
PO Box 248
Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

July 10, 2013

David MacDonald
62 Woodland Road
North Hampton, NH 03862

Dear David MacDonald:

Attached the Sales Agreement and the Inspection Agreement for ***THE CLEAN SOLUTION***™ system. The system has been sized for your existing 4-bedroom single-family home located at 62 Woodland Road in North Hampton, NH.

The agreements describe ***THE CLEAN SOLUTION*** system, the required inspections, maintenance, and the cost of the system components.

Attachments:

1. Sales Agreement and Inspection Contract for your records.

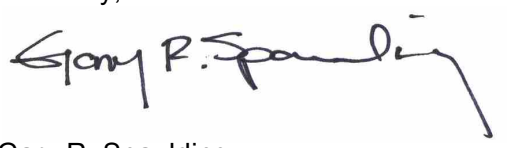
2. **Inspection Agreement (2 copies)** - Return one signed copy to your designer. This copy will be sent to NHDES with your subsurface disposal for review. NHDES requires it for their records to show that you have been made aware of the inspection and maintenance.

3. **Sales Agreement –** Please sign and return with the initial payment to AOS three weeks prior to the system being installed. This time is need to order the tank and system components.

When you return the above documentation to AOS please provide us with your installer's name and contact information. Once we have this information AOS will coordinate with your installer on the installation date.

Thank you for choosing ***THE CLEAN SOLUTION*** alternative septic system. We look forward to working with you. Please call if you would like to discuss the system or the sales agreement.

Sincerely,



Gary R. Spaulding
General Manager, Advanced Onsite Solutions, LLC

Email gary@aosne.com
www.aosne.com

ADVANCED ONSITE SOLUTIONS LLC
PO Box 248
Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

SALES AGREEMENT

July 10, 2013

BUYER:
Name: David MacDonald
Address: 62 Woodland Road
City, State Zip: North Hampton, NH 03862
Phone:
Cell:
Email:

OWNER-IF DIFFERENT:
Name:
Address:
City, State Zip:
Phone:
Cell:
Email:

Please complete all missing information

SITE:
Property ID: Tax Map 6 Lot No. 11
Address: 62 Woodland Road
City, State, Zip: North Hampton, NH 03862

Waterbody:

Design Flow: 600 gpd
Number of Bedrooms: 4

Designer Information:
Stockton Services
P.O. Box 1306
Hampton, NH 03843-1306

Advanced Onsite Solutions LLC (AOS) will supply ***THE CLEAN SOLUTION™*** Sewage Treatment System for the above site based on design parameters provided by the designer / owner and subsurface disposal plan(s) submitted to AOS by a licensed designer. Change of use that results in an increase in daily flow or wastewater strength will impact the performance of ***THE CLEAN SOLUTION***. The owner(s) or the owner(s) representative(s) is responsible for obtaining all required state and local approvals.

This Sales Agreement is subject to the following conditions:

1. The buyer will provide AOS with copies of the approved plans.
2. The buyer will hire a qualified installer licensed for Subsurface Disposal.
3. This agreement includes a required inspection agreement. Owner understands that failure to perform the required maintenance may result in premature dispersal field failure.

AOS will provide the following:
THE CLEAN SOLUTION **system model: 250ST-R4**

Tank Type:	☒ **Concrete**	☐ Plastic
Loading Requirements:	☒ **Standard Duty**	☐ Heavy duty ☐ H-20 duty
Air Line	☒ **1/2 " dia.**	☐ 3/4 " dia.
Access Risers:	☐ Plastic Risers to 6"	☐ Plastic Risers to 12"
	☒ **Plastic Risers to 18"**	☐ Plastic Risers to 24"
Additional Components:	☒ **Compressor Shelf**	☐ Compressor Outdoor Enclosure
	☐ Compressor Alarm	
	☐ STF-100 pressure filter	☐ Pressure alarm switch
	☒ **Tank Sealing**	

Email custserv@aosne.com
www.aosne.com

ADVANCED ONSITE SOLUTIONS LLC
PO Box 248
Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

ELECTRICAL REQUIREMENTS:

Owner shall be responsible for hiring a licensed electrician. A 120-volt outlet, non-ground fault interrupted circuit, supplying 5 amps per compressor. Location of the outlet(s) shall be within 50' of ***THE CLEAN SOLUTION*** system and within 4' of the compressor.

FOLLOWING PROVIDED BY OTHERS:

- Septic tanks if required
- Pump Chamber if required
- Effluent pump, all pump controls and electrical disconnect switch
- Exterior Venting may be required for older homes
- Exterior Venting is required for systems where effluent is pumped to ***THE CLEAN SOLUTION*** system
- Excavation for installing system components
- Construction of the dispersal field
- Piping to and from ***THE CLEAN SOLUTION*** system

OWNER HAS THE FOLLOWING UNDERSTANDING:

- Failure to install the subsurface disposal system according to the approved plan will void system warranty and performance specifications.
- The owner's contractor shall ensure that all risers are watertight and all system components, both upstream and downstream of ***THE CLEAN SOLUTION*** system, are watertight to prevent infiltration from groundwater and surface runoff.
- ***THE CLEAN SOLUTION*** system has not been designed to handle backwash discharge from Water Softeners or other high water use fixtures such as hot tubs or spa style showers. Discharge water from high water use fixtures to be discharged into an approved drywell.
- If the subsurface disposal system requires an effluent pump, the pump chamber shall be inspected annually for sludge buildup and pumped as necessary.

MAINTENANCE SUGGESTIONS:

There is ongoing concern that pharmaceuticals, medical treatments, and personal care products impact how a septic system functions. Studies have shown that these products can disrupt the balance of bacteria in the septic tank, reducing the septic tank's efficiency to break down waste. The following is recommended:

1. The EPA suggests that unused pharmaceuticals, either prescription or over the counter medicines, not be disposed of in the septic system. Check with your local pharmacy to see if it has a program to dispose of unused medicines.
2. If a resident of the home is undergoing medical treatment with high strength antibiotics, the system should be inspected annually to determine a proper maintenance schedule.

PERFORMANCE SPECIFICATIONS:

THE CLEAN SOLUTION system has been designed based on the following standard residential wastewater influent strength from primary septic tank(s) - BOD_5 of 140-180 mg/l, TSS 100-150 mg/l and FOG <5 mg/l.

Email custserv@aosne.com
www.aosne.com

ADVANCED ONSITE SOLUTIONS LLC
PO Box 248
Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

LIMITED WARRANTY

For a period of 5-years from the date of installation, AOS warrants that the components within the BioCon chamber will be free from defects. If a defect exists, AOS will repair or replace the defective components at no cost to the owner. This limited warranty does not cover the cost of pumping the system to make necessary repairs, or the cost for excavation to replace or make repairs, or replacement of landscaping features. This limited warranty does not cover failure of the dispersal field(s). AOS does not warrenty THE CLEAN SOLUTION system or components installed by others.

For compressors that have been maintained and used under normal operating conditions, AOS will extend the compressor manufacturer's warranty from one year to two years. Labor to replace compressors will be billed out at AOS standard hourly rates.

EXCLUSIONS AND LIMITATIONS

This limited warranty for pump chamber components (pump, floats, alarms, etc) if supplied by AOS is limited to the manufacturer's terms and conditions. Labor to replace effluent pump/floats/alarms will be billed out at AOS standard hourly rates.

It is the owner's responsibility to ensure that inspections are performed by AOS or an AOS-approved vendor. Failure to perform a timely inspection, or to perform the required maintenance, maintain records of pumping or to notify AOS of any problems will void this limited warranty. This limited warranty does not cover damage caused by improper use by the occupants, poor construction or design practices, high groundwater, flooding, or acts of God.

Owner shall defend, indemnify, and hold harmless AOS and its employees and subcontractors, from and against any and all claims, demands, causes of action, damages, liabilities, losses, and expenses arising from the project and/or the contract to the extent caused by the fault of Owner and/or its consultants, design professionals, or agents.

THIS LIMITED WARRANTY IS IN LIEU OF AND SUPERSEDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

*AOS SHALL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, NOR SHALL AOS LIABILITY UNDER THIS WARRANTY EXCEED THE AMOUNT PAID TO AOS FOR **THE CLEAN SOLUTION SYSTEM**.*

Email custserv@aosne.com
www.aosne.com

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Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

Sales Agreement

The agreed upon price for THE CLEAN SOLUTION system is:	**$ 7,500.00**
State Sales Tax if applicable: (VT, ME, MA):	**-**
Additional Components: Tank Coating	**$ 300.00**
Delivery	**-**
Total Due:	**$ 7,800.00**
Payment schedule is as follows:	
FIRST PAYMENT upon signing this agreement	**$ 3,900.00**
FINAL PAYMENT payable on the day of installation	**$ 3,900.00**

If the AOS technician has to return to complete the scheduled installation because the site is not properly prepared, Buyer agrees to pay AOS $80.00/man hour for subsequent visit(s).

Failure to pay in full will void all warrantees. Buyer agrees to pay all costs and expenses incurred by AOS, including all attorney fees, and all collection charges (including a percentage of the outstanding balance of this Contract) should the account be referred to a collection agency.

THIS SALES AGREEMENT IS VALID FOR 60 DAYS FROM THE DATE OF THIS DOCUMENT. ALL SYSTEM COMPONENTS MUST BE INSTALLED WITHIN 60 DAYS OF INITIAL DEPOSIT. FAILURE TO INSTALL THE SYSTEM COMPONENTS WITHIN 60 DAYS MAY RESULT IN ADDITIONAL CHARGES.

Please send payment to:
ADVANCED ONSITE SOLUTIONS LLC
P.O. BOX 248
CANTERBURY, NH 03224

If Paying by Credit Card please call:
AOS Accounting Department
603-783-8042

By signing below the owner or owner's representative has read the SALES AGREEMENT and attached INSPECTION AGREEMENT and agrees to the terms of the SALES AND INSPECTION AGREEMENTS and to perform the necessary inspections and maintenance outlined in the INSPECTION AGREEMENT.

ACCEPTED BY:

DATE:

Name: David MacDonald
Address: 62 Woodland Road
City, State Zip: North Hampton, NH 03862
Phone:
Cell:
Email:

PLEASE PROVIDE ALL INFORMATION REQUESTED ABOVE

Email custserv@aosne.com
www.aosne.com

ADVANCED ONSITE SOLUTIONS LLC
PO Box 248
Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

RESIDENTIAL
NEW HAMPSHIRE INSPECTION AGREEMENT
July 10, 2013

OWNER:	
Name:	David MacDonald
Address:	62 Woodland Road
City, State Zip:	North Hampton, NH 03862
Phone:	
Cell:	
Email:	

Please complete all missing information

SITE:	
Property ID:	Tax Map 6 Lot No. 11
Address:	62 Woodland Road
City, State, Zip:	North Hampton, NH 03862
Waterbody:	
Design Flow:	600 gpd
Number of Bedrooms:	4

The following inspection and maintenance is required. It is the owner's responsibility to see that this maintenance is performed.

☒ **Residential Use (Single Family Home)**

1. If the Individual Subsurface Disposal System (ISDS) is a gravity system, ***THE CLEAN SOLUTION*** system shall be inspected every 2 years by a certified AOS Technician.
2. If the ISDS utilizes the settling chamber as a pump chamber, AOS requires that a certified AOS Technician inspect ***THE CLEAN SOLUTION*** system annually.
3. After the inspection, you may need to contact your septic pumper to pump out the septic and settling/pump tanks. Maximum time between pumping should not exceed 2 years. More frequent pumping may be required depending on system use and number of occupants. Owner must retain records of pumping.
4. Compressor must run continuously. It should be checked for operation at least once a month unless a compressor alarm has been installed. Compressor Air Filter to be cleaned or replaced yearly. If the Compressor is located in a dusty environment the filter will need to be cleaned more frequently
5. An AOS Technician will determine when the BioCon™ chamber will need pumping. Typical residential use requires BioCon Chamber to be pumped and cleaned every 5 to 7 years.
6. Compressor may be disconnected for seasonal homes that have been winterized.

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Additional Maintenance Suggestions:

There is ongoing concern that pharmaceuticals, medical treatments, and personal care products impact how a septic system functions. Studies have shown that these products can disrupt the balance of bacteria in the septic tank, reducing the septic tank's efficiency to break down waste.

The following is recommended:

1. The EPA suggests that unused pharmaceuticals, either prescription or over the counter medicines, not be disposed of in the septic system. Check with your local pharmacy to see if it has a program to dispose of unused medicines.
2. If a resident of the home is undergoing medical treatment with high strength antibiotics, the system should be inspected annually to determine the proper maintenance schedule.

This Inspection service includes the following: Inspection Report, Replacing Compressor Filter, replacement of failed system components within the BioCon and Settling Chambers that are covered under warranty provided by AOS. The cost of pumping out the tank(s) to perform the necessary repairs or components required to make repairs is not included in the inspection fee.

The inspection fee does not cover routine maintenance of the BioCon Chamber (pumping and cleaning)

Failure to have an inspection agreement with AOS or an approved vendor will void warranty outlined in the **Sales Agreement provided by AOS. AOS does not warranty THE CLEAN SOLUTION systems or system components that have been installed by others.**

INSPECTION FEE SCHEDULE

Single Family Residential Homes – The current fee is $200.00 per inspection plus the cost of replacement parts not covered by warranty.

AOS may adjust the Inspection fees as needed to cover increase in cost of service and goods (i.e. Fuel).

Inspection fees are payable at time of service.

By signing below, the owner or owner's representative warrants that s/he has read and agrees to the terms of the SALES and INSPECTION AGREEMENTS, and agrees to perform the necessary inspections and maintenance outlined.

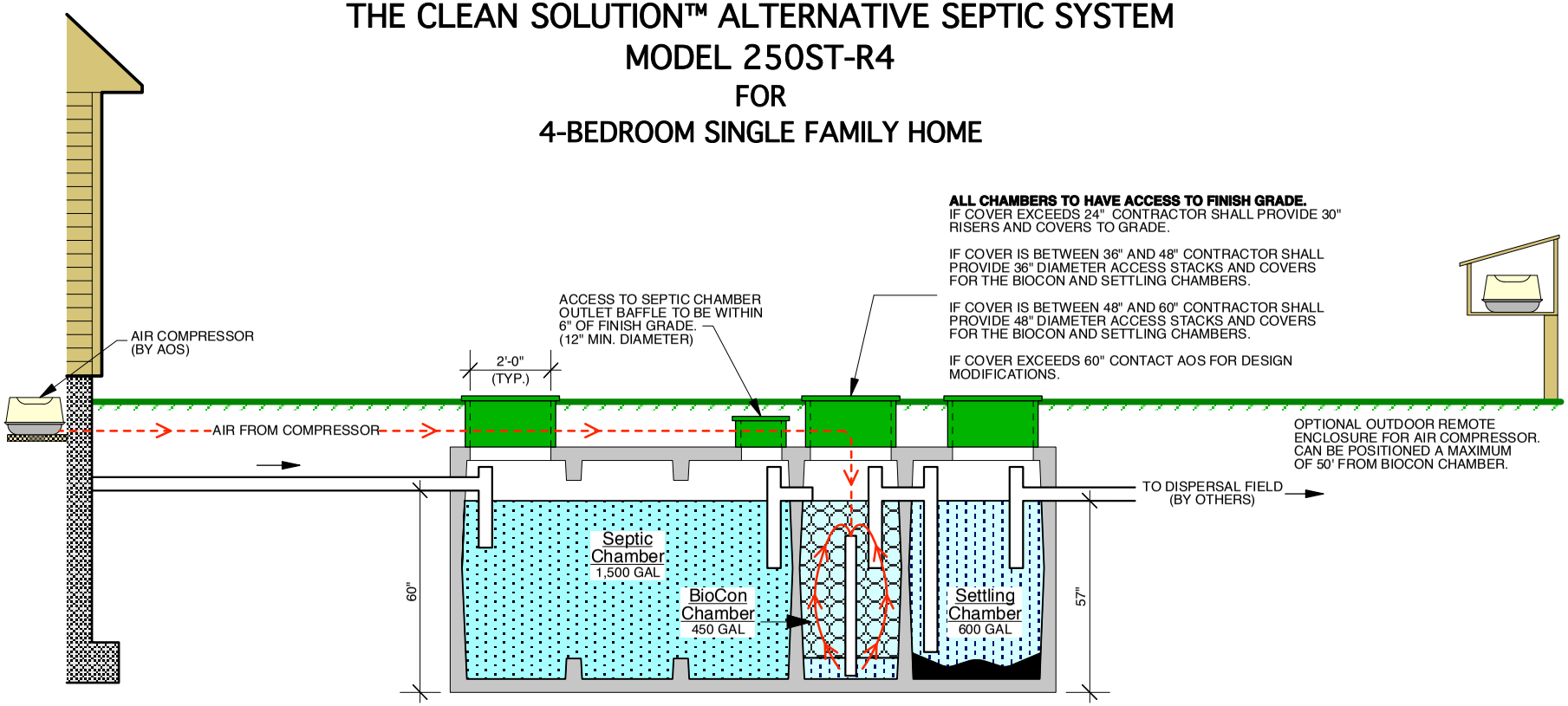
ACCEPTED BY:

DATE:

Name:	David MacDonald
Address:	62 Woodland Road
City, State Zip:	North Hampton, NH 03862
Phone:	
Cell:	
Email:	

PLEASE PROVIDE ALL INFORMATION REQUESTED ABOVE

THE CLEAN SOLUTION™ ALTERNATIVE SEPTIC SYSTEM
MODEL 250ST-R4
FOR
4-BEDROOM SINGLE FAMILY HOME


ALL CHAMBERS TO HAVE ACCESS TO FINISH GRADE.
IF COVER EXCEEDS 24" CONTRACTOR SHALL PROVIDE 30" RISERS AND COVERS TO GRADE.
IF COVER IS BETWEEN 36" AND 48" CONTRACTOR SHALL PROVIDE 36" DIAMETER ACCESS STACKS AND COVERS FOR THE BIOCON AND SETTLING CHAMBERS.
IF COVER IS BETWEEN 48" AND 60" CONTRACTOR SHALL PROVIDE 48" DIAMETER ACCESS STACKS AND COVERS FOR THE BIOCON AND SETTLING CHAMBERS.
IF COVER EXCEEDS 60" CONTACT AOS FOR DESIGN MODIFICATIONS.
ACCESS TO SEPTIC CHAMBER OUTLET BAFFLE TO BE WITHIN 6" OF FINISH GRADE. (12" MIN. DIAMETER)
AIR COMPRESSOR (BY AOS)
2'-0" (TYP.)
AIR FROM COMPRESSOR
OPTIONAL OUTDOOR REMOTE ENCLOSURE FOR AIR COMPRESSOR. CAN BE POSITIONED A MAXIMUM OF 50' FROM BIOCON CHAMBER.
TO DISPERSAL FIELD (BY OTHERS)
Septic Chamber 1,500 GAL
BioCon Chamber 450 GAL
Settling Chamber 600 GAL
60"
57"

Septic/BioCon/Settling Tank

- Provided by AOS -

2,550 GAL 3-Compartment Tank

(15'0"L x 6'6"W x 6'1"H)

Tank from:

Phoenix Precast Products
Concord, NH 03301
1-800-639-2199

NOTES:

1. Septic & Settling Compartments must be pumped every 2 years.
   More frequent pumping may be required depending on use.
2. Tank is not suitable for drive on use. Heavy Duty and H-20 models available.
3. Contractor to verify tank dimensions prior to setting.
4. Plastic risers provided by AOS up to 18". Based on design plans
   Contractor to provide additional risers to finish grade if cover over tank exceeds 18".
   See above for depth requirements

Site: Tax Map 6 Lot No. 11 62 Woodland Road North Hampton, NH 03862	Owner: David MacDonald 62 Woodland Road North Hampton, NH 03862	Date 07/10/2013 Rev.	**A**dvanced **O**nsite **S**olutions LLC *innovative wastewater solutions with sustainable results* P.O.Box 248 Canterbury, NH 03224 Phone 603.783.8042

Model 250ST-R6 7-26-2011 Phoenix.vwx

© 2013 AOS LLC

ADVANCED ONSITE SOLUTIONS LLC
PO Box 248
Canterbury, NH 03224
(603)-783-8042
Toll Free: (866) 900-2415

THEORY of *THE CLEAN SOLUTION™*

Conventional decentralized septic systems whether used for individual homes, commercial applications or a community septic system a septic tank(s) are used to first provide anaerobic (without air) treatment of the waste which is then followed by a leach field to provide aerobic (with air) treatment of the effluent.

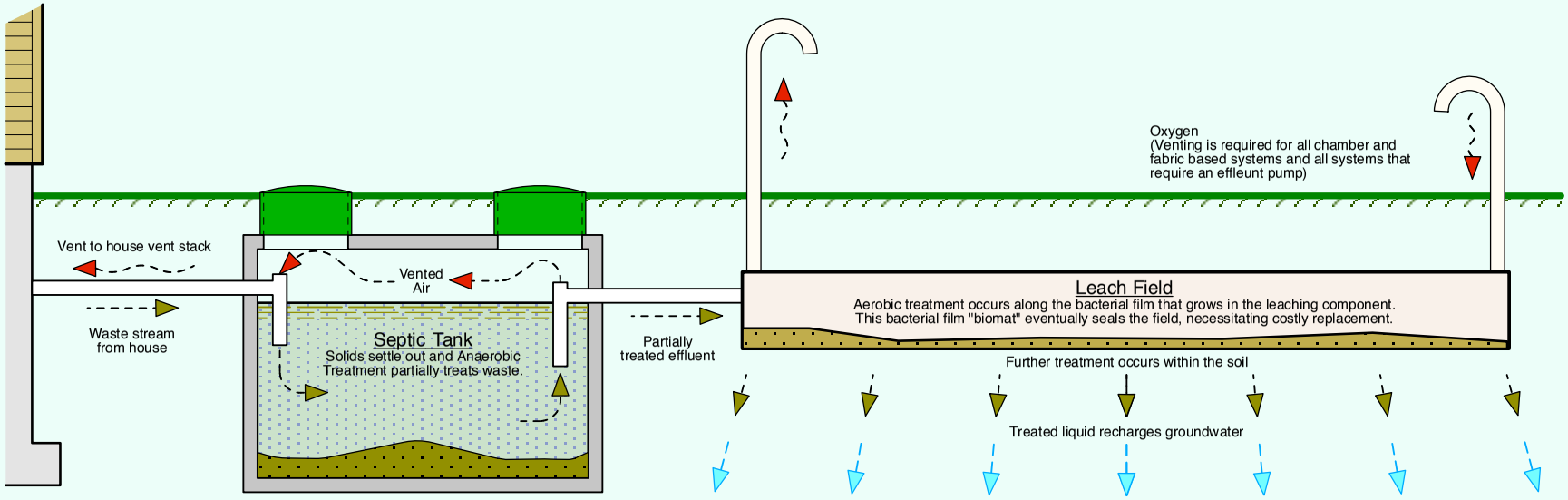
Septic tanks work well for capturing and digesting the solids, which are anaerobically fermented over a long period of time, dissolving the solids into liquid waste. However, a septic tank is not designed to treat the contaminants that dissolve in the liquids. These are treated aerobically in the leach field. Municipal systems, which handle very large volumes of wastewater, use different equipment to accomplish the same biological functions as a septic system: primary sedimentation tanks remove solids, and a subsequent aerobic system treats the contaminants dissolved in the liquids. Settled solids are removed from municipal primary and secondary facilities for further treatment.

Every aerobic treatment system, whether a conventional leach field, municipal treatment plant, or ***THE CLEAN SOLUTION***, depends on bacteria to treat the effluent from a solids settling system. In order for the bacteria to reproduce, they require energy (food) and air. By using the contaminants in the effluent as food and atmospheric air, the bacteria metabolize the dissolved solids to carbon dioxide, water, and sludge (colonies of bacteria). The aerobic bacteria also convert ammonia compounds to nitrates.

A large number of bacteria need to come in contact with the food source in order to purify an effluent. Treatment systems utilize different methods to provide the necessary bacteria population. A municipal system mechanically stirs up the bacteria in the secondary treatment process so that they will contact their food and not settle out of the effluent. In a leach field, the sludge (biomat) that forms at the ground interface is a large colony of bacteria through which the dissolved solid stream flows. In ***THE CLEAN SOLUTION*** the bacteria collect in a thin film on the plastic media in the BioCon chamber, and the effluent circulates through the plastic media.

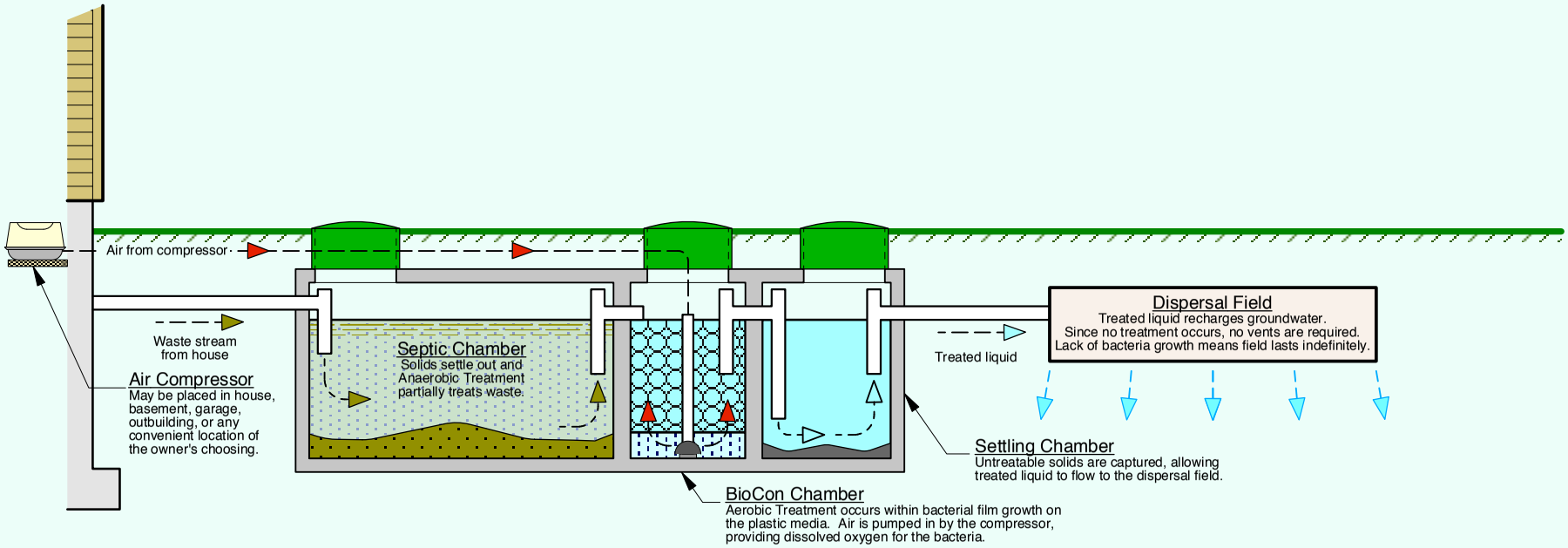
THE CLEAN SOLUTION uses the same biological process as a municipal secondary treatment plant, utilizing the activated sludge process. Solids are settled out and air is added for bacteria respiration in the BioCon. This allows the bacteria to convert the carbonaceous dissolved solids to carbon dioxide, water, and sludge. In addition, the urea and ammonia converts to nitrates and sludge. The sludge created is settled for periodic removal from the system, and a clean, odorless effluent is discharged to the dispersal field.

The major difference between a conventional septic system and ***THE CLEAN SOLUTION*** is where the bacteria (sludge) collect. In a conventional system, the sludge forms in the bottom of the leach field and restricts the effluent flow enough so that the bacteria has time to act. This flow rate through the sludge determines the required field size. In ***THE CLEAN SOLUTION*** system the sludge is formed in the BioCon chamber, resulting in treated, clear effluent discharging to the dispersal field. This field can be greatly reduced in size because there is no further treatment required to reduce BOD and TSS.


Oxygen
(Venting is required for all chamber and fabric based systems and all systems that require an effleunt pump)
Vent to house vent stack
Vented Air
Waste stream from house
Septic Tank
Solids settle out and Anaerobic Treatment partially treats waste.
Partially treated effluent
Leach Field
Aerobic treatment occurs along the bacterial film that grows in the leaching component. This bacterial film "biomat" eventually seals the field, necessitating costly replacement.
Further treatment occurs within the soil
Treated liquid recharges groundwater

CONVENTIONAL LEACH FIELD SEPTIC SYSTEM

Treatment occurs within the leach field components, whether fabric wrapped pipes or mats, concrete or plastic chambers or traditional pipe & stone.


Air from compressor
Waste stream from house
Air Compressor
May be placed in house, basement, garage, outbuilding, or any convenient location of the owner's choosing.
Septic Chamber
Solids settle out and Anaerobic Treatment partially treats waste.
Treated liquid
Dispersal Field
Treated liquid recharges groundwater.
Since no treatment occurs, no vents are required.
Lack of bacteria growth means field lasts indefinitely.
Settling Chamber
Untreatable solids are captured, allowing treated liquid to flow to the dispersal field.
BioCon Chamber
Aerobic Treatment occurs within bacterial film growth on the plastic media. Air is pumped in by the compressor, providing dissolved oxygen for the bacteria.

THE CLEAN SOLUTION™ ALTERNATIVE SEPTIC SYSTEM

Treatment occurs within the BioCon™ Aerobic treatment chamber, allowing for a dispersal area smaller than a leach field.

Advanced **O**nsite **S**olutions LLC
innovative wastewater solutions with sustainable results
P.O. Box 248
Canterbury, NH 03224
Phone 603.783-8042
www.thecleansolution.com

62 WOODLAND RD

Location	62 WOODLAND RD	**Mblu**	006/ 111/ 000/ /
Acct#	000690	**Owner**	ROBERTS DAVID G III
Assessment	$508,700	**Appraisal**	$508,700
PID	277	**Building Count**	1
Legal Description		**Lot Type**	
topoTopography	Level	**Utility**	Septic,Electric,Public Water
Location	Suburban	**Street/Road**	Paved

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$297,400	$211,300	$508,700
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$297,400	$211,300	$508,700

Owner of Record

Owner	ROBERTS DAVID G III	**Sale Price**	$617,000
Co-Owner	CORMIER LIBELIA M	**Certificate**	
Address	62 WOODLAND RD NO HAMPTON, NH 03862	**Book & Page**	5959/1043
		Sale Date	11/02/2018
		Instrument	00

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
ROBERTS DAVID G III	$617,000		5959/1043	00	11/02/2018
MACDONALD DAVID	$0		4917/0246	1F	04/15/2008
MACDONALD DAVID & MARY ANN	$300,000		4838/1823	1O	08/30/2007
MCDERMOTT WILLIAM V & MARLENE	$0		2867/0319		02/02/1991

Building Information

Building 1 : Section 1

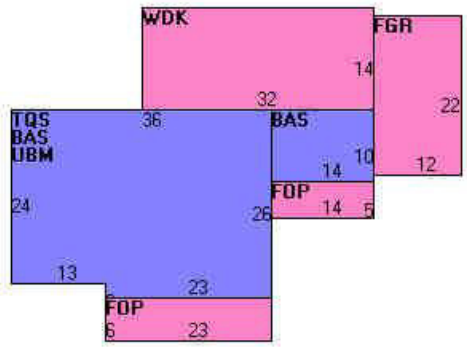
Year Built: 1960
Living Area: 1,733
Replacement Cost: $296,584
Building Percent Good: 99
Replacement Cost Less Depreciation: $293,600

Building Attributes	
Field	**Description**
Style:	Cape Cod
Model	Residential
Grade:	Average +25
Stories:	1.75
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	Wood Shingle
Roof Structure:	Gable/Hip
Roof Cover	Standing Seam
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	Ceram Clay Til
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	6
Bath Style:	Modern
Kitchen Style:	Modern
Num Kitchens	00
Cndtn	
MH Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo

(http://images.vgsi.com/photos/NorthHamptonNHPhotos//\00\00\60\68.jpg)

Building Layout



(http://images.vgsi.com/photos/NorthHamptonNHPhotos//Sketches/277_27

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,050	1,050
TQS	Three Quarter Story	910	683
FGR	Garage,Framed	264	0
FOP	Porch, Open	208	0
UBM	Basement, Unfinished	910	0
WDK	Deck, Wood	448	0
		3,790	1,733

Extra Features

Extra Features								Legend
Code	Description	Sub Code	Sub Description	Size	Value	Assessed Value	Bldg #	Comment
FPL3	2 STORY CHIM			1.00 UNITS	$3,800	$3,800	1	

Parcel Information

Use Code 1010
Description SINGLE FAM MDL-01
Deeded Acres 0.51

Land

Land Use

Use Code 1010
Description SINGLE FAM MDL-01
Zone R2
Neighborhood
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 0.51
Frontage
Depth
Assessed Value $211,300
Appraised Value $211,300

Outbuildings

Outbuildings								Legend
Code	Description	Sub Code	Sub Description	Size	Value	Assessed Value	Bldg #	Comment
RPV1	PAV - SM			1.00 UNITS	$0	$0	1	

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	$297,400	$211,300	$508,700
2019	$294,700	$211,300	$506,000
2018	$222,700	$211,300	$434,000

Assessment			
Valuation Year	Improvements	Land	Total
2020	$297,400	$211,300	$508,700
2019	$294,700	$211,300	$506,000
2018	$222,700	$211,300	$434,000

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APPROVAL FOR CONSTRUCTION

CA2013114290 N.H. DEPARTMENT OF ENVIRONMENTAL SERVICES CA2013114290
SUBSURFACE SYSTEMS BUREAU
P.O. BOX 95, 29 HAZEN DRIVE, CONCORD, NH 03302-0095

APPROVAL NO.

THE PLANS AND SPECIFICATIONS FOR SEWAGE OR WASTE DISPOSAL SYSTEM SUBMITTED FOR:

OWNER: DAVID MACDONALD
62 WOODLAND RD
NORTH HAMPTON NH 03862-

COPY SENT TO: BUILDING INSPECTOR
233 ATLANTIC AVE
NORTH HAMPTON NH 03862

BY APPLICANT: PERMIT NO. 00348
STOCKTON SERVICES
PO BOX 1306
HAMPTON NH 03843-1306

Map No./Lot No.:	6/111
Subd. Appvl. No.:	PRE 67
Subd. Name:	
County:	ROCKINGHAM
Registry Book No.:	4917
Registry Page No.:	0246
Probate Docket No.: (If Applicable)	
Type of System:	N 4 BR 600 GPD
Town/City Location:	NORTH HAMPTON
Street Location:	62 WOODLAND ROAD

Subsurface waste disposal systems must be operated and maintained in a manner so as to prevent nuisance or health hazard due to system failure. (RSA 485-A:37)

It is unlawful to discharge any hazardous chemicals or substances into subsurface waste disposal systems. Included are paints, thinners, gasoline and chlorinated hydrocarbon solvents such as TCE, sometimes used to clean failed septic systems and auto parts. (Env-Ws 1503.04)

ADVISE YOUR CONTRACTOR OF REQUIRED CHANGES IN PLANS AS INDICATED BELOW CONDITIONS

1. WAIVER GRANTED - THIS APPROVAL IS GRANTED ONLY TO IMPROVE AN EXISTING SITUATION.
2. PLEASE BE ADVISED THAT IF CONSTRUCTION ON THIS LOT INVOLVES DREDGING AND/OR FILLING A JURISDICTIONAL WETLAND/STREAM, WETLANDS BUREAU APPROVAL IS REQUIRED PRIOR TO CONSTRUCTION PER RSA 482-A.
3. SYSTEM MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. APPROVED FOR PRETREATMENT SYSTEM / I.T.A. PER PART ENV-WQ 1024.
5. APPROVED WITH A MUNICIPAL WATER SUPPLY ONLY.

Approved this date: 08/08/2013 By: DARREN K KING
N.H. Department of Environmental Services Staff
Date amended: _____ Amended by: _____ (OVER)

REVISED 8/01

201302986

APPLICANT'S

IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES WATER DIVISION
APPROVED
AUG 08 2013
Signed Date

CA 2013 11429 0

CTS SHALL
ABLE ODORS OCCUR,
N.

PERC RATE: N/A CLEAN SOLUTION SYSTEM

DESIGN LOADING: EXISTING 4 BEDROOM HOUSE

AREA REQUIRED: 100–150 SF DISPERSAL FIELD REQUIRED PER AOS SPECS

AREA PROPOSED: 10'X25' = 250 SF DISPERSAL FIELD PROVIDED

6 AUG 13
APPROVED
Town of North Hampton
Septic System Examiner
Michael Emmons

NOTICE to the installer or owner.
The Town of North Hampton requires this system to have a bed bottom (basal area) inspection. Contact the Building Inspector 24 hours prior to inspection at 964-8650.

SEPTIC SYSTEM PLAN

RULE ENV–WQ 1004.15 REPLACEMENT DESIGN FOR INSTALLATION ONLY IN EVENT OF SYSTEM FAILURE

LOCUS: 62 WOODLAND ROAD
NORTH HAMPTON, NH
TAX MAP 6 LOT 111

RECEIVED
JUL 23 2013
ROCKINGHAM COUNTY CONSERVATION DISTRICT

OWNER: DAVID MACDONALD
62 WOODLAND ROAD
NORTH HAMPTON, NH 03862

RECEIVED
AUG 08 2013
NHDES
LAND RESOURCES MANAGEMENT

NEW HAMPSHIRE
Designer
of
Subsurface Disposal Systems
Anne W. Bielobrzeski
No. 348
Department of Environmental Services

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03843–1306

DATE: 06/21/13

APPROVAL: _____

659